APPENDIX B

8. The method of claim 7 wherein the signal filtering comprises generating a plurality of symbol estimates, and the carrier-to-interference ratio computation comprises solving the following equation:

[()]

$$\frac{\hat{C}}{I} = \frac{\hat{\alpha}_{re}^2 \left\{ \frac{1}{N} \sum_{k=1}^{N} \|y(k)\|^2 \right\}}{\hat{MSE} - (1-\alpha_{re})^2 \cdot \frac{1}{N} \sum_{k=1}^{N} \left\{ \|y(k)\|^2 \right\}} \quad [10] \qquad (6)$$

where:

y(k) represents a plurality of second symbols corresponding to the symbol estimates;

N represents the number of samples; and

$\hat{\alpha}_{re}$ represents the real component of the estimated bias.

20. The receiver of claim [20] 9 wherein the filter is further configured to generate a plurality of symbol estimates from the signal, and the parameter generator is configured to compute the carrier-to-interference ratio by solving the following equation:

$$\frac{\hat{C}}{I} = \frac{\hat{\alpha}_{re}^2 \left\{ \frac{1}{N} \sum_{k=1}^{N} \|y(k)\|^2 \right\}}{\hat{MSE} - (1-\alpha_{re})^2 \cdot \frac{1}{N} \sum_{k=1}^{N} \left\{ \|y(k)\|^2 \right\}} \quad [5]$$

where:

y(k) represents a plurality of second symbols corresponding to the symbol estimates;

N represents the number of samples; and

$\hat{\alpha}_{re}$ represents the real component of the estimated bias.

39. The receiver of claim 38 wherein the filter means further comprises means for estimating a plurality of symbols from the signal, and the parameter computation means is configured to compute the carrier-to-interference ratio by solving the following equation: [15]

$$\frac{\hat{C}}{I} = \frac{\hat{\alpha}_{re}^2 \left\{ \frac{1}{N} \sum_{k=1}^{N} \|y(k)\|^2 \right\}}{\hat{MSE} - (1-\alpha_{re})^2 \cdot \frac{1}{N} \sum_{k=1}^{N} \left\{ \|y(k)\|^2 \right\}}$$

where:

y(k) represents a plurality of second symbols corresponding to the symbol estimates;

N represents the number of samples; and

$\hat{\alpha}_{re}$ represents the real component of the estimated bias.

49. The communications system of claim 48 wherein the filter is further configured to generate a plurality of symbol estimates from the signal, and the parameter generator is configured to compute the carrier-to-interference ratio by solving the following equation:

$$\frac{\hat{C}}{I} = \frac{\hat{\alpha}_{re}^2 \left\{ \frac{1}{N} \sum_{k=1}^{N} \|y(k)\|^2 \right\}}{\hat{MSE} - (1-\alpha_{re})^2 \cdot \frac{1}{N} \sum_{k=1}^{N} \left\{ \|y(k)\|^2 \right\}} \quad [15]$$

where:

y(k) represents a plurality of second symbols corresponding to the symbol estimates;

N represents the number of samples; and

$\hat{\alpha}_{re}$ represents the real component of the estimated bias.

65. The method of claim 64 wherein the signal filtering comprises generating a plurality of symbol estimates, and the carrier-to-interference ratio computation comprises solving the following equation:

$$\frac{\hat{C}}{I} = \frac{\hat{\alpha}_{re}^2 \left\{ \frac{1}{N} \sum_{k=1}^{N} \|y(k)\|^2 \right\}}{\hat{MSE} - (1-\alpha_{re})^2 \cdot \frac{1}{N} \sum_{k=1}^{N} \left\{ \|y(k)\|^2 \right\}} \quad [5]$$

where:

y(k) represents a plurality of second symbols corresponding to the symbol estimates;

N represents the number of samples; and

$\hat{\alpha}_{re}$ represents the real component of the estimated bias.